



Vipin Sharma S/O Sh. Umesh Chandra Sharma
ICAR-Directorate of Rapeseed Mustard
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*Seeking career opportunities to channelize my skills and utilise my knowledge to achieve higher aims
and work towards the elevation of the organisational growth.*

OBJECTIVE

Looking for a full-time position in Research (Academic/Industrial), where I can demonstrate my technical and experimental skills and contribute to the development and better understanding of science for benefit.

EXPERIENCE

- Working as **Scientific Assistant** in Department of Pharmacology & Toxicology in B.V.Patel PERD Centre, Ahemdabad,India **Since ,April 2017.**
- Worked as **SRF (Senior Research Fellow)** in Central Inter-Disciplinary Research Facility, Puducherry in a DBT project entitled, “**Small animal research facility for preclinical studies and services (CARETS)**” **Since November 2016 to April 2017.**
- Worked as **SRF (Senior Research Fellow)** in the **Department** of Pharmacology & Toxicology (Veterinary College, Mathura) in a ICAR project entitled, “**Pharmacological studies and Development of a Poly herbal formulation for reproductive disorders in animals.**” **Since February 2016 to Oct 2016.**
- Worked as **SRF (Senior Research Fellow)** on the topic of “**Toxicodynamic studies on impact of environmental pollutants on bovine reproduction with particular reference to regulatory pathways**” under Niche Area of Excellence Project in U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan Mathura. **Since, Sept 2014 to January 2016.**

Skills and Experience-

Pharmacology & Toxicology-

***In-Vivo* Studies-**

- Administration of drugs by Oral, Intravenous, Subcutaneous and Intra-peritoneal in rodents.
- Collection and analysis of blood through retro-orbital plexus, Tail vein and cardiac puncture.

Toxicity Studies-

- Acute Toxicity, Sub-acute Toxicity, Chronic Toxicity, Hepatotoxicity,

Pharmacological evaluation of chemicals, herbal extracts/formulations in following areas-

- Asthma, Cataract, Diabetes, Implantation in mice, Inflammation, Wound healing and Pain relief.

Development of screening model-

- Effect of herbal compounds in Benign Prostatic Hyperplasia (BPH).
- Development of management of NSAID induced gastroenteropathy.

Natural Products Isolation, Analysis and their formulation-

- Preparation of crude extracts of various medicinal plants and solvent fractionation.
- Preliminary screening of crude extracts for their different chemical components. Thin Layer Chromatography of plant extracts.
- Development of Poly-herbal formulations.
- Antimicrobial testing of different crude plant extracts, MIC calculation.
- Column chromatography of plant extract.
- TLC and GC-MS analysis.

Smooth Muscle Physiology/Pharmacology-

- Experienced on Pharmacodynamics studies on uterine smooth muscle (Vascular, Non-Vascular) to characterization of various receptors by data acquisition based poly-physiograph to determine downstream signalling pathways. Device used, Powerlab, Isometric Force Transducer (AD Instrument, Australia)

Software – Lab chart ProV5.41

Software of DRC Data- Graph Pad Prism 4.03

Cellular & Molecular Biology Technique-

- Enzyme measurement through Kit method.
- Collection and analysis of blood and serum through Haematology and Clinical Chemistry analyser.
- Protein Separation, Immunohistochemistry, RNA Isolation, c-DNA extraction, SDS-PAGE, Western Blot, Thermocycler for PCR, Gel Electrophoresis, Gel Documentation Unit, Spectrophotometer, FT-NIR (Fourier Transforms Near Infrared Reflector Analyser), Autoclave Microprocessor based, Inverted Microscope.

Posters/Oral Presentations/ abstracts: National/International Conference

- **MiP Scholarship** for attending training school with poster presentation organised by MiP Mitochondrial Physiological Society collaboration with Medical University of Innsbruck & Medical university of Zentrum on 23.07.2017 to 27.07.2017 at Obergurgl, Austria, Europe

- Nair S.V., **Sharma V.**, Sharma A., Nakade U.P., Sharma P., Bhatiya S., Choudhury Soumen and Garg S.K. Pharmacological and molecular evidence of hydrogen sulphide mediated uterine tone in water buffaloes (*Bubalus bubalis*) got **DR.R.NATRAJAN AWARD for the best oral presentation in XVI Annual Conference of “Indian Society of Veterinary Pharmacology and Toxicology, Nasari Gujrat 2016.**
- **Sharma V**, Choudhury S, Nair SV, Jaitley P, Nakade UP, Sharma A, Yadav RK and Garg SK. Role of ATP-sensitive potassium (K_{ATP}) and maxi potassium (BK_{Ca}) channels in beta3-adrenoceptors mediated tocolytic effect in buffaloes (*Bubalus bubalis*) Poster presentation have been done in (2015) 48th annual conference of Indian Pharmacological Society, Rajkot, Gujrat.
- **Sharma V**, Paul K. S, Parashari. D Anti-diabetic Activity of DLX4 in STZ induced Diabetic Rats Poster presented in (2015) 3rd Nirma Institute of Pharmacy International Conference NIPiCON – 2016 Nirma University, Ahemdabad, Gujrat.
- **Sharma V**, P. Nakade Uday, Sharma Abhishek, Nair.V Sooraj, Choudhary. S, Yadav. R.K, Garg. K Satish. Functional characterization of Adrenergic and muscuranic receptors in non-pregnant water buffaloes (*Bubalus Bubalis*) poster presentation have been **AWARDED** in 15th Annual conferences of ISVPT held at National Dairy Research Institute, Karnal , Harayana. (ISVPT-2015).
- Sharma A, P.Nakade Uday, Nair.V Sooraj, **Sharma V**, Choudhary S. Calcium Signaling cascade differently regulates oxytocin-induced myometrial contractions in early pregnant and mid-pregnant buffaloes (*Bubalus bubalis*) poster presented of 15th Annual conferences of ISVPT held at National Dairy Research Institute, Karnal , Harayana. (ISVPT-2015).
- Koli S, Nair.V Sooraj, **Sharma V**, Rajeev Ranjan1 Atul Prakash1, Soumen Choudhury1, Rajesh Mandil and Satish K. Garg. Mechanistic pathways of Mercury-Induced myometrial contractions in rats with particular reference to calcium signalling abstract submitted in 13th Annual conferences of ISVPT held at National Dairy Research Institute, Karnal , Harayana. (ISVPT-2015).

Technical Assistance-

- Provided Technical Assistance in ICAR NICHE AREA of Excellence Programme workshop Hands on Training on ,” **Use of Data Acquisition System Based Physiograph in Pharmacodynamic Studies,**” held on 09-03-2015 to 13-03-2015.
- Provided Technical assistance in ICAR NICHE AREA of Excellence Programme workshop Hands on Training on ,”**Cyto-genotoxicity Assay and use of Functional and Molecular tools in Pharmacodynamic Studies,**” held on 08-02-2016 to 17-02-2016.

Research article-

- Sharma.A, P.nakade Uday ,Choudhury. S, **Sharma.V**, Jaitley .P, , Yadav R.K, Garg S.K **“Deferential involvement of L-type Ca^{+2} Channel, phospholipase-C, store -operated calcium channel and Rho-kinase signalling pathway(s) in $PGF_{2\alpha}$ induced myometrial contraction in non-pregnant & pregnant buffaloes”** paper communicated in prostaglandin and other lipid mediators.
- **Calcium-dependent and calcium-mimicking pathways regulate lead- induced myometrial contraction in water buffaloes (*Bubalus Bubalis*),** “Uday P.nakade , Sharma.A, ,Choudhury. S,

Sharma.V, Jaitley .P, , Yadav R.K, Garg S.K.” Paper Published in Indian Journal of Animal science.

- **Sharma V**, Nair S.V, Jaitley.P, Uday, Sharma.V Choudhury.S, Garg S.K, “**K_{ATP} and B_KCa channel regulate BRL37344- induced tocolysis in buffaloes**” paper communicated in reproduction.

EDUCATION

- Master in Pharmacology from Mahatma Gandhi College of Pharmaceutical Sciences, (MGPCS), Jaipur **with 68%** through **Rajasthan University of Health Science**.
- Bachelor in Pharmacy from Vidyasthali Inst. of Sci. & Tech. Mgt., Jaipur **with 61%** through **Rajasthan University of Health Science (RUHS), Jaipur** in 2011.
- Passed class 12th from Master Adityandra Govt. Sen. Sec. School, Bharatpur **with 60.31%** through **Rajasthan Board** in year 2006.
- Passed class 10th from Kendriya Vidyalaya, Bharatpur **with 50%** through **CBSE Board** in year 2004.

INTERNSHIP & TRAINING

- Completed M.Pharma Internship on **7- Days Toxicity Study** from **Deshpande Laboratories, Bhopal**.
- Completed B. Pharma Training on 2 Months from **Borocaps Pharmaceutical Pvt. Ltd Jaipur**
- Handling Training on equipments PCR (Polymerase Chain Reaction), Gel Electrophoresis, Gel Documentation Unit, Spectrophotometer, FT-NIR (Fourier Transforms Near Infrared Reflector Analyzer), Automatic Autoclave Microprocessor based, Inverted Microscope, Hemocytometer and **Poly-Physiograph to determine downstream signaling pathway**.

ACHEIVEMENTS

- Won prize in Posters and Model Competition in B.Pharm.
- College as a volunteer.

SOFT SKILLS

- Basic Knowledge of Computer.
- Debating and presentation.
- Comprehensive problem solving abilities and hard worker.

HOBBIES & INTERESTS

- Watching Science Fiction Movies.
- Net Surfing.

- Listening Music.

PERSONAL DETAILS

Father Name : Sh. Umesh Chandra Sharma
Date of Birth : 10th Oct, 1988.
Languages Known : English and Hindi.
Permanent Address : S/o Sh. Umesh Chandra Sharma, D.R.M.R., Bharatpur, Rajasthan.
Email ID : asvipinsharma10@gmail.com
Nationality : Indian
Marital Status : Single

I hereby declare that all the above information is true to my knowledge.

Date:

Place:

(VIPIN SHARMA)